FIG. 1

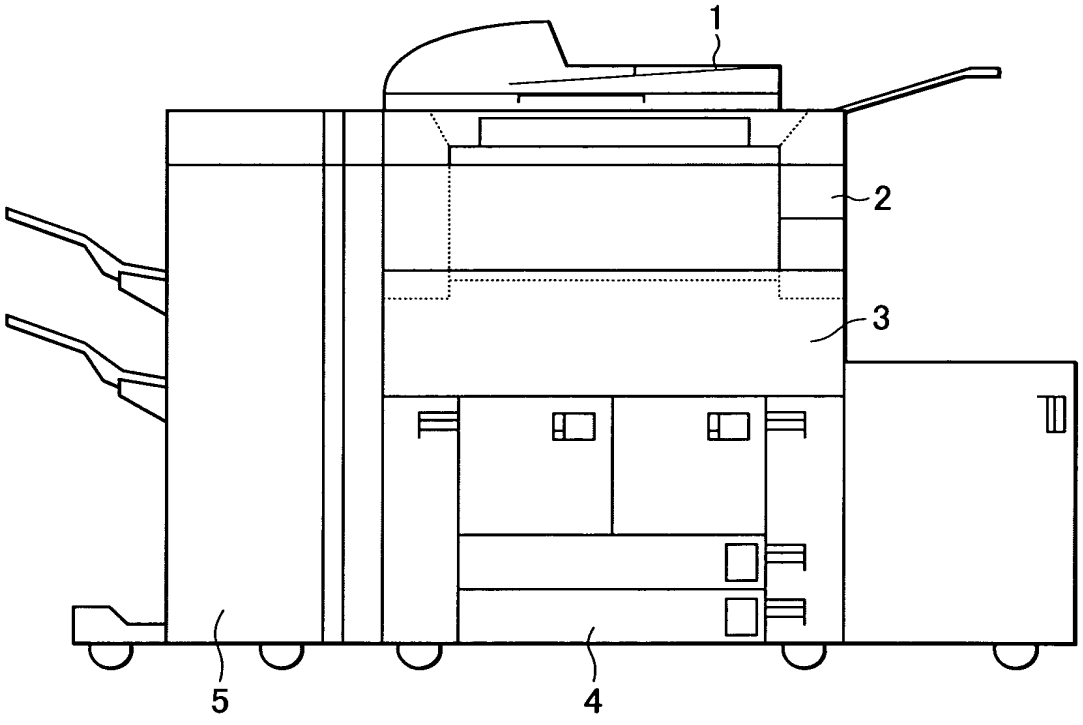


FIG. 2

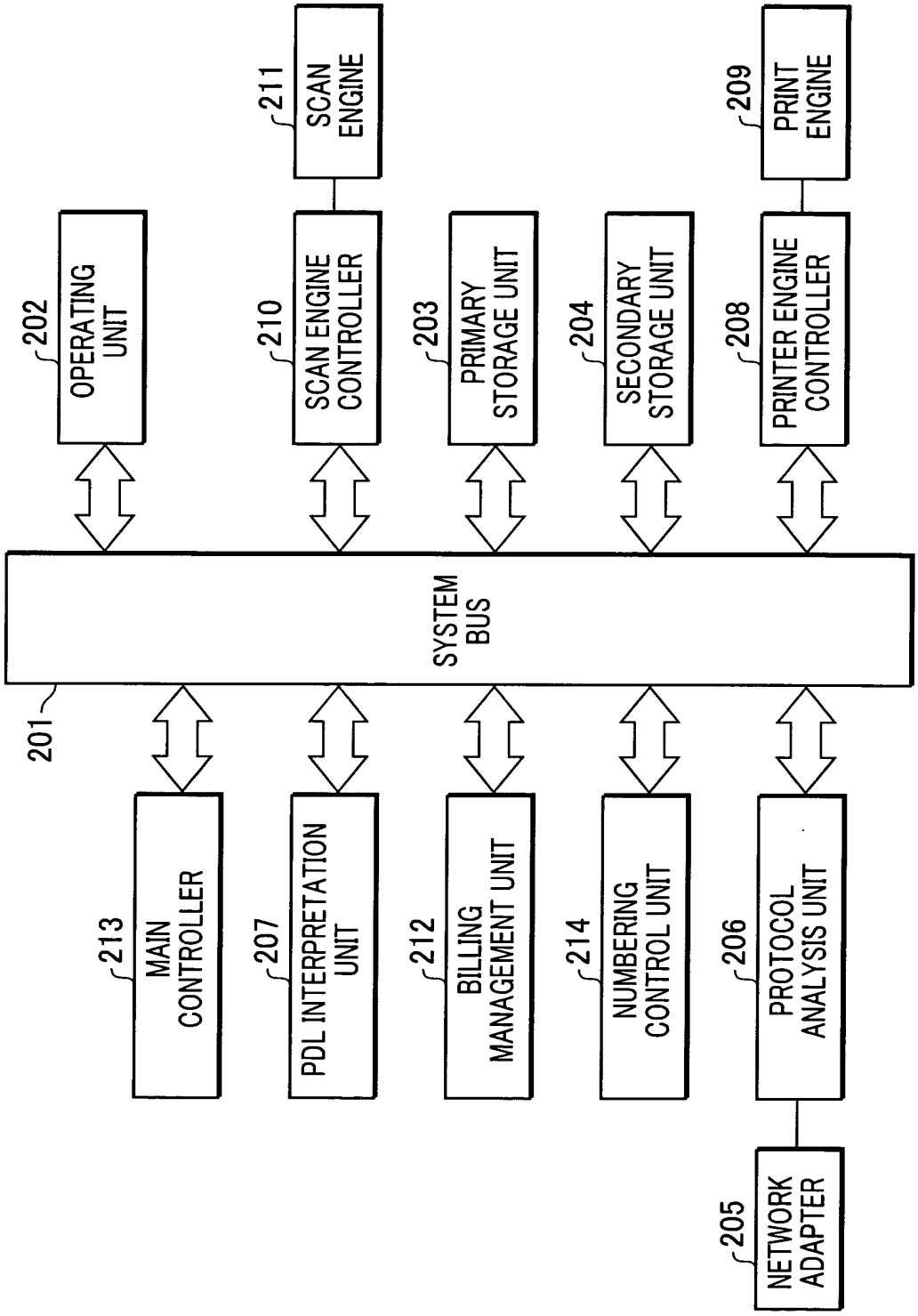

201
SYSTEM BUS
202
OPERATING UNIT
210
SCAN ENGINE CONTROLLER
211
SCAN ENGINE
203
PRIMARY STORAGE UNIT
204
SECONDARY STORAGE UNIT
208
PRINTER ENGINE CONTROLLER
209
PRINT ENGINE
213
MAIN CONTROLLER
207
PDL INTERPRETATION UNIT
212
BILLING MANAGEMENT UNIT
214
NUMBERING CONTROL UNIT
206
PROTOCOL ANALYSIS UNIT
205
NETWORK ADAPTER

FIG. 3

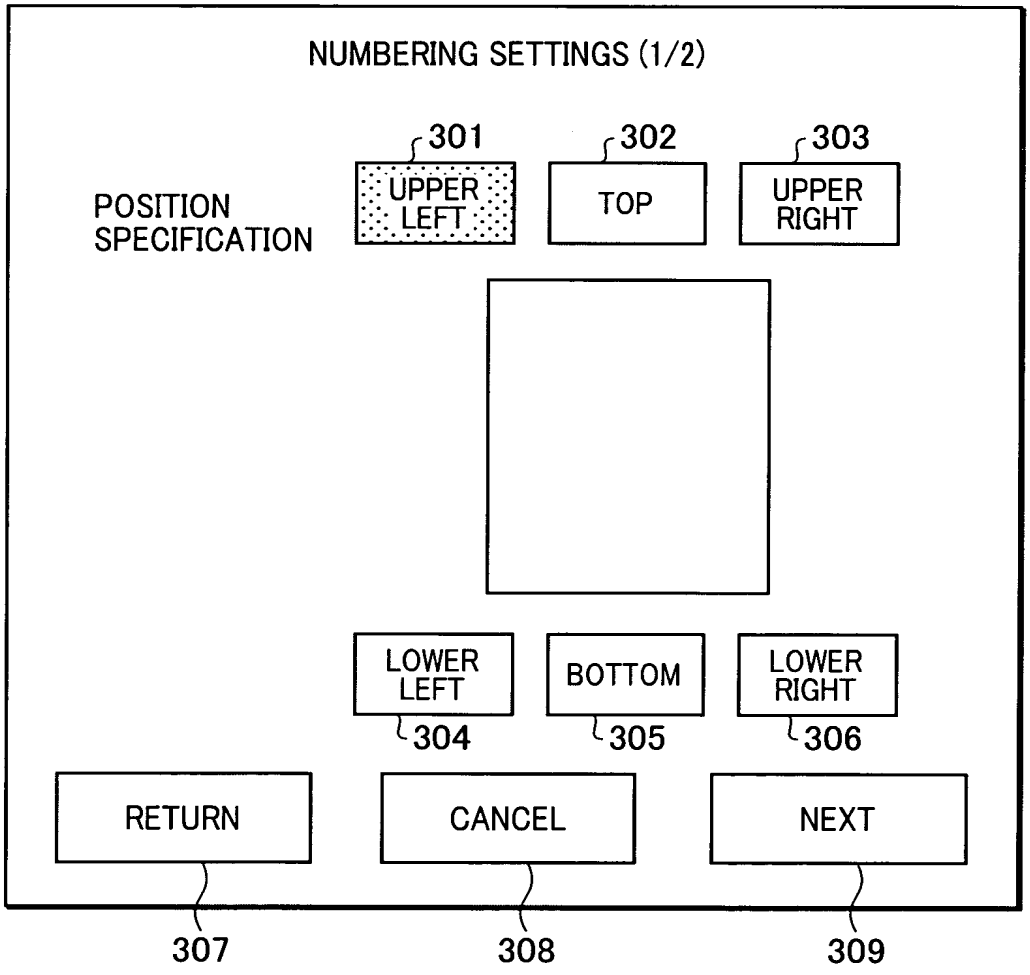

NUMBERING SETTINGS (1/2)
POSITION SPECIFICATION
301
UPPER LEFT
302
TOP
303
UPPER RIGHT
LOWER LEFT
304
BOTTOM
305
LOWER RIGHT
306
RETURN
307
CANCEL
308
NEXT
309

FIG. 4

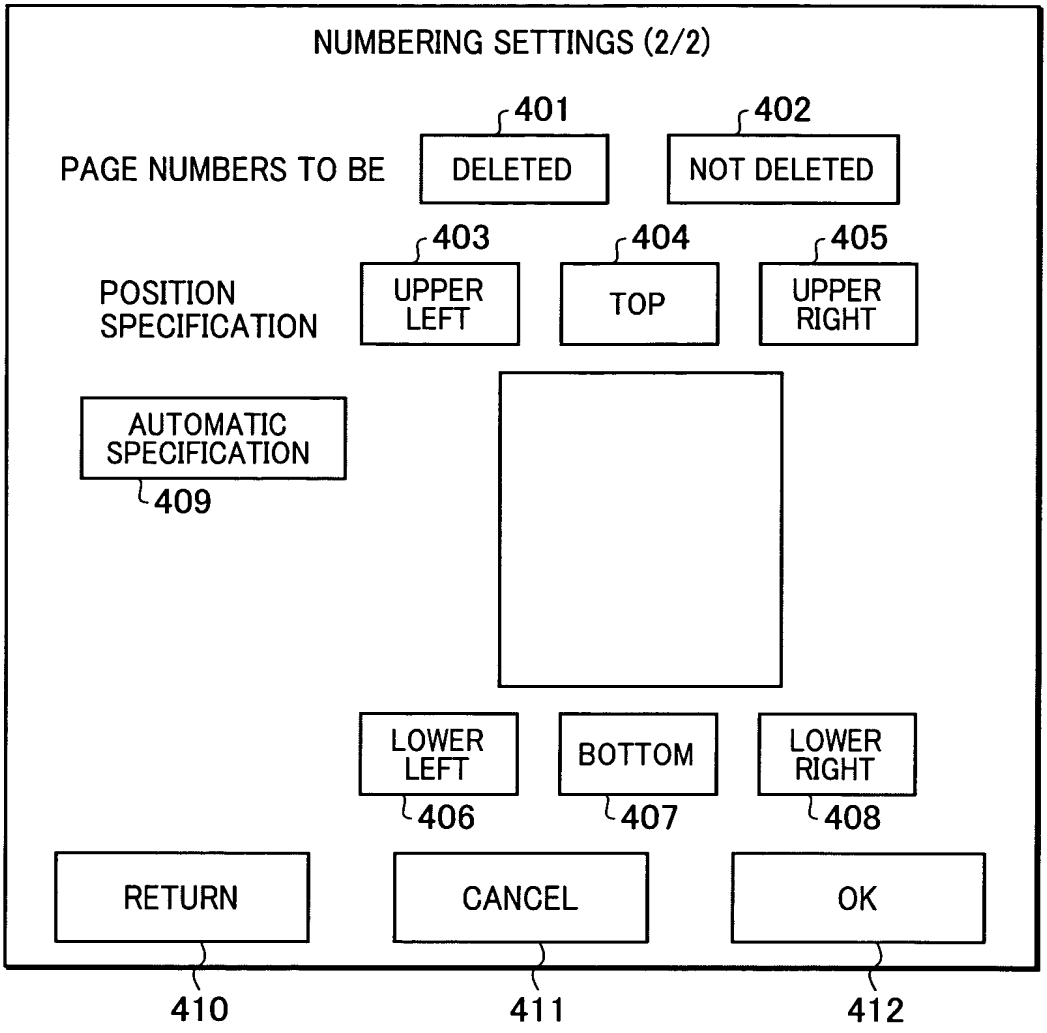

NUMBERING SETTINGS (2/2)
401
402
PAGE NUMBERS TO BE
DELETED
NOT DELETED
403
404
405
POSITION SPECIFICATION
UPPER LEFT
TOP
UPPER RIGHT
AUTOMATIC SPECIFICATION
409
LOWER LEFT
BOTTOM
LOWER RIGHT
406
407
408
RETURN
CANCEL
OK
410
411
412

FIG. 5

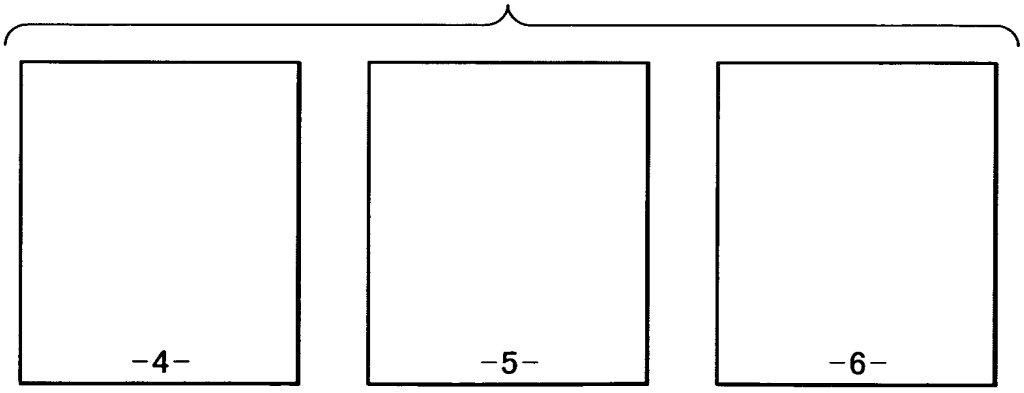

-4-
-5-
-6-

FIG. 6

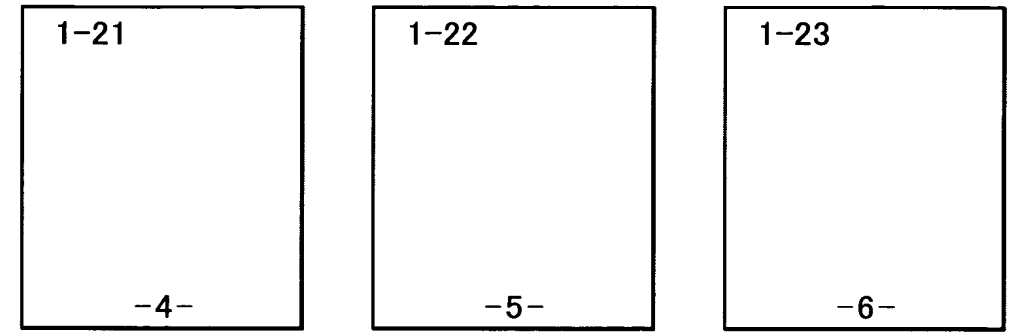


FIG. 7

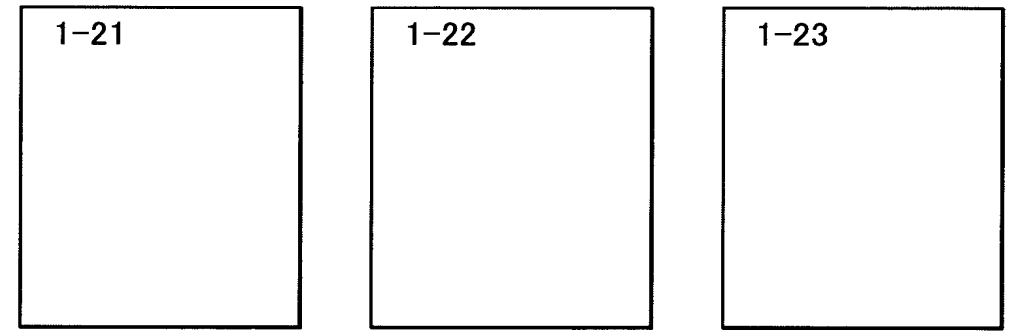


FIG. 8

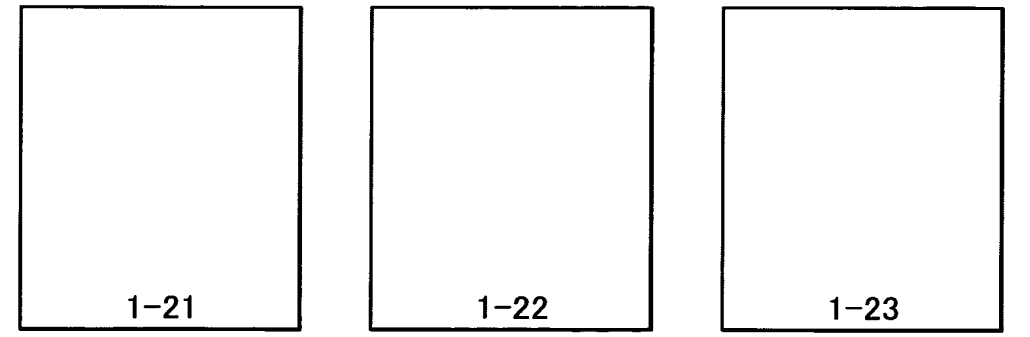


FIG. 9

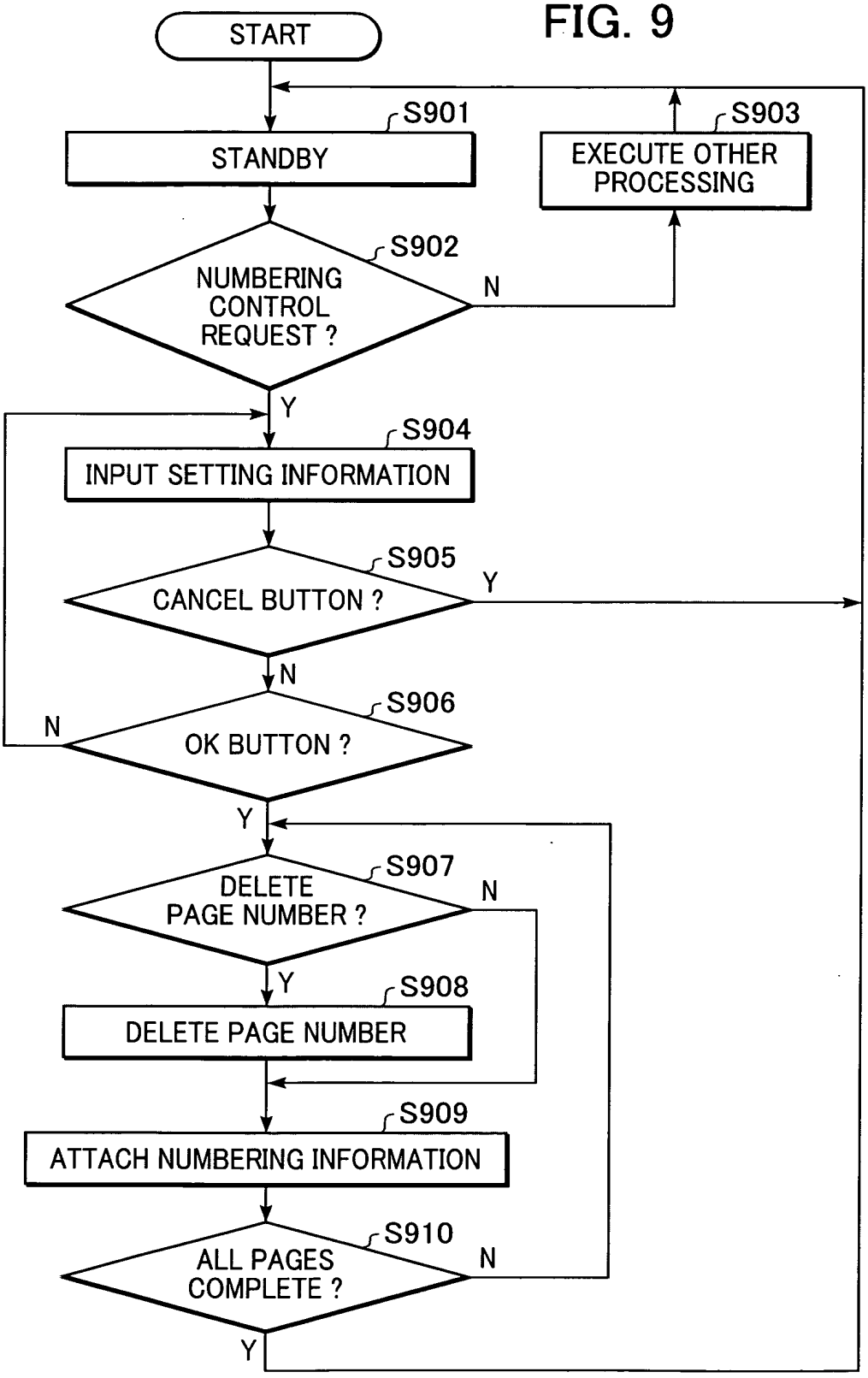

START
S901
STANDBY
S903
EXECUTE OTHER PROCESSING
S902
NUMBERING CONTROL REQUEST ?
N
Y
S904
INPUT SETTING INFORMATION
S905
CANCEL BUTTON ?
Y
N
S906
OK BUTTON ?
N
Y
S907
DELETE PAGE NUMBER ?
N
Y
S908
DELETE PAGE NUMBER
S909
ATTACH NUMBERING INFORMATION
S910
ALL PAGES COMPLETE ?
N
Y

FIG. 10

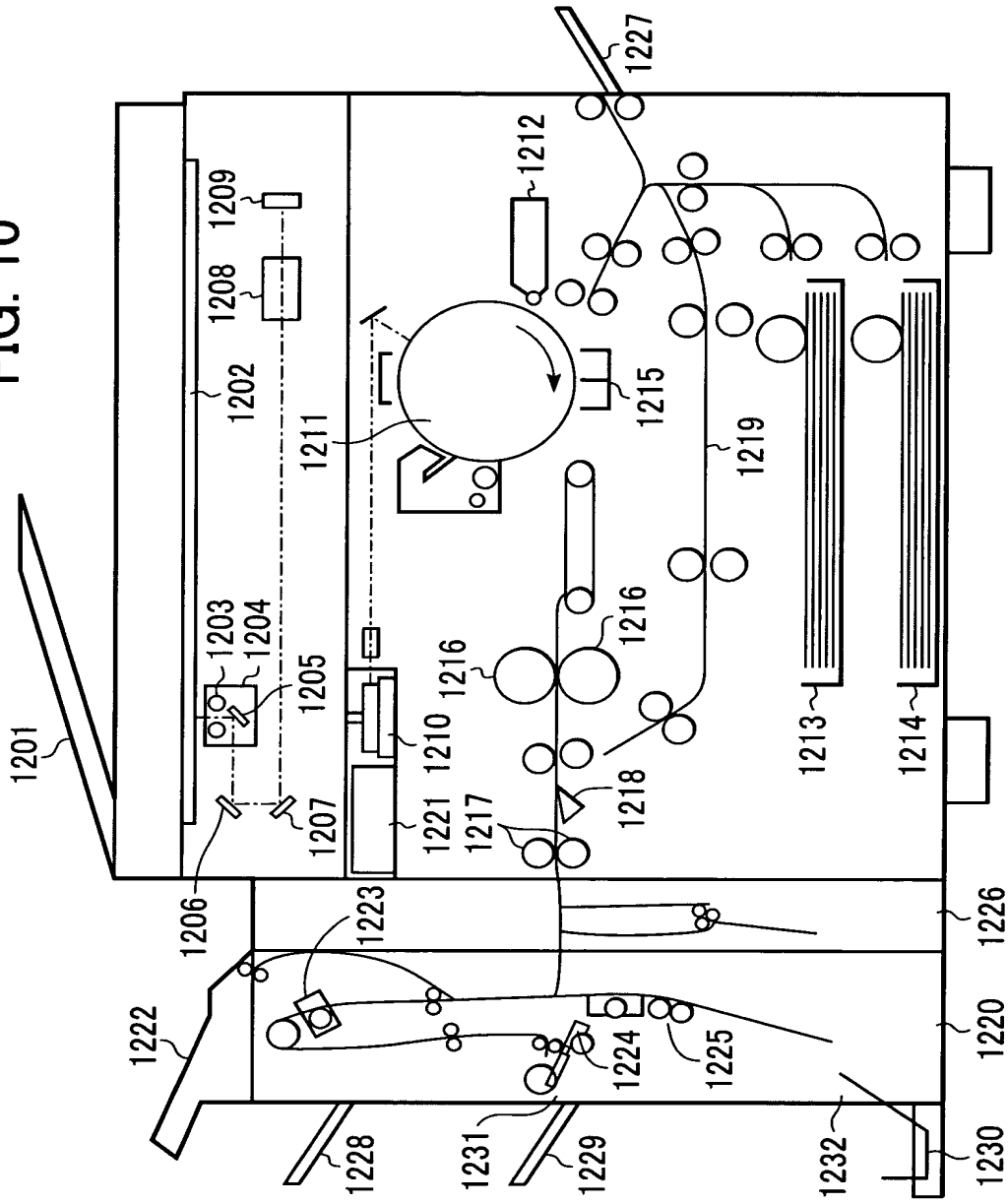

1201
1202
1203
1204
1205
1206
1207
1208
1209
1210
1211
1212
1213
1214
1215
1216
1216
1217
1218
1219
1220
1221
1222
1223
1224
1225
1226
1227
1228
1229
1230
1231
1232

FIG. 11

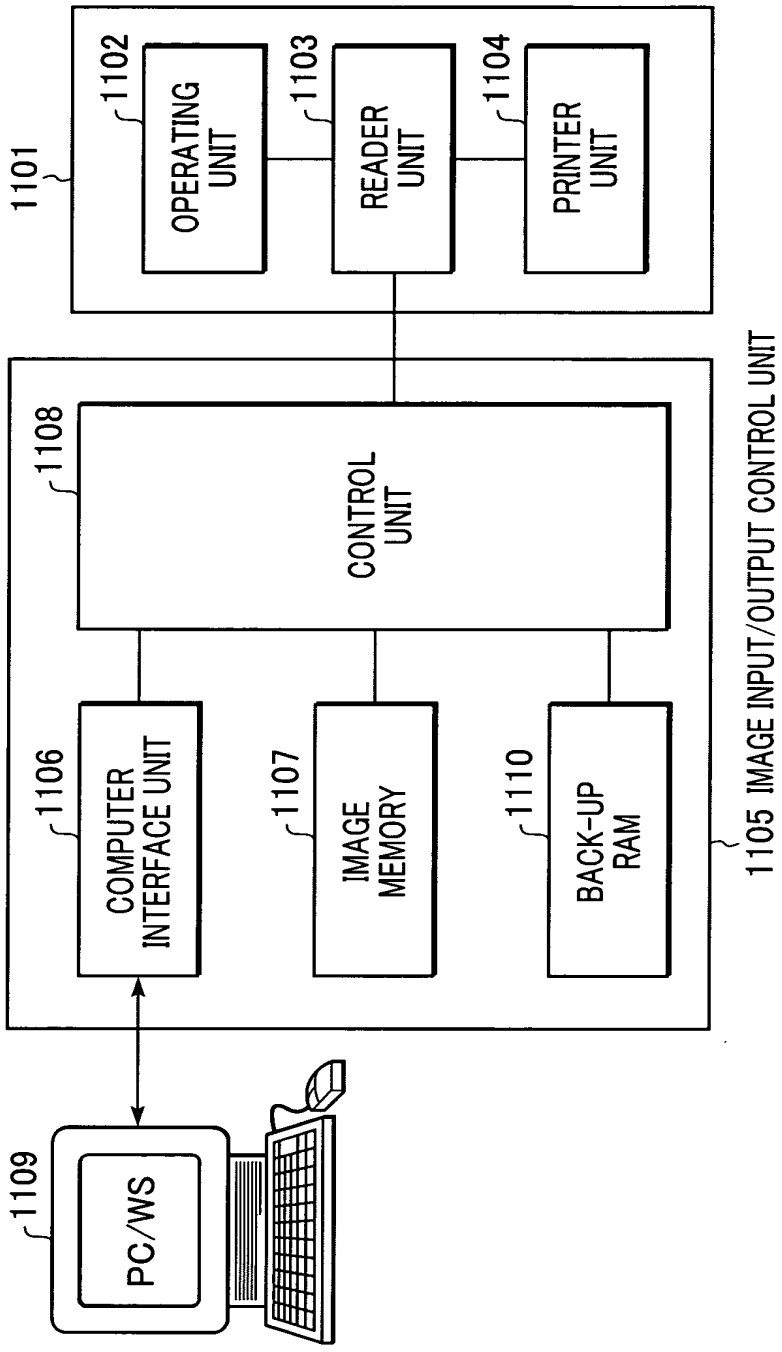

1101
1102
OPERATING UNIT
1103
READER UNIT
1104
PRINTER UNIT
1108
CONTROL UNIT
1106
COMPUTER INTERFACE UNIT
1107
IMAGE MEMORY
1110
BACK-UP RAM
1105 IMAGE INPUT/OUTPUT CONTROL UNIT
1109
PC/WS

FIG. 12

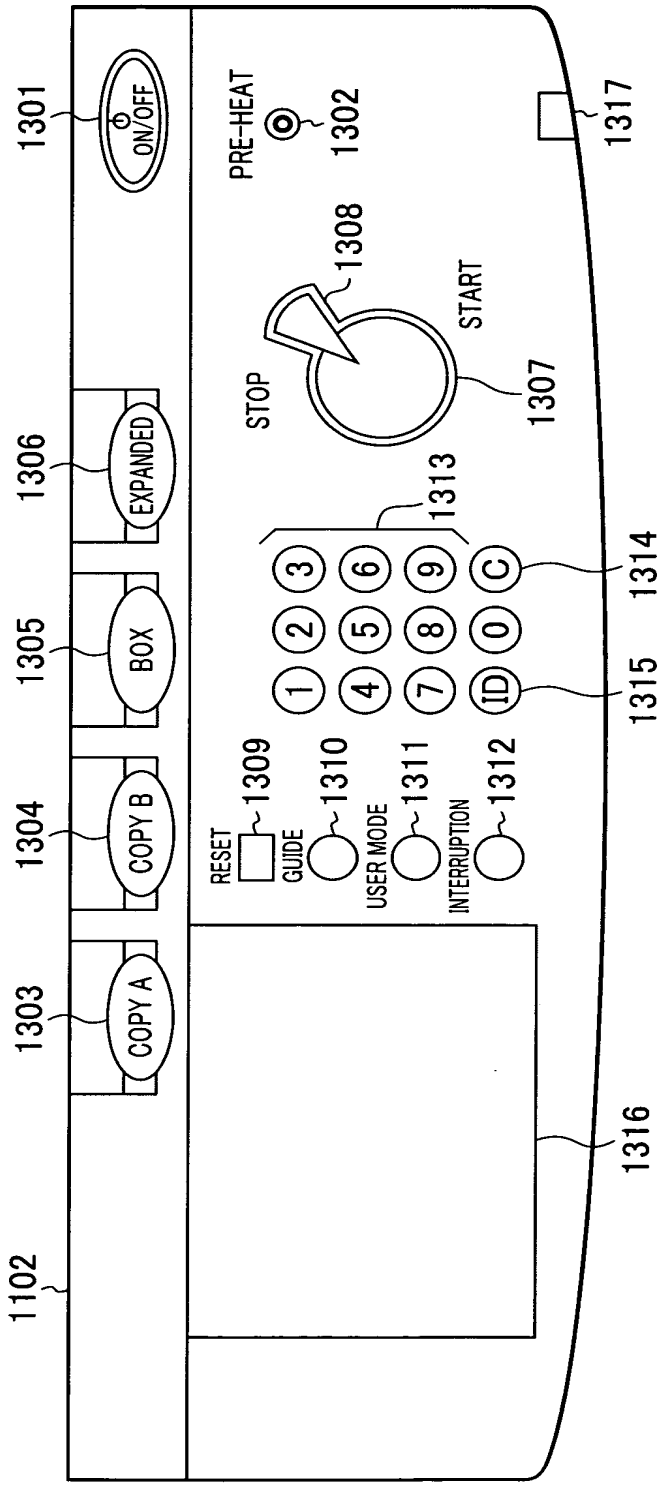

1301
ON/OFF
PRE-HEAT
1302
1317
1308
START
STOP
1307
1306
EXPANDED
1313
1314
1305
BOX
1315
1304
COPY B
RESET
1309
GUIDE
1310
USER MODE
1311
INTERRUPTION
1312
1303
COPY A
1316
1102

FIG. 13

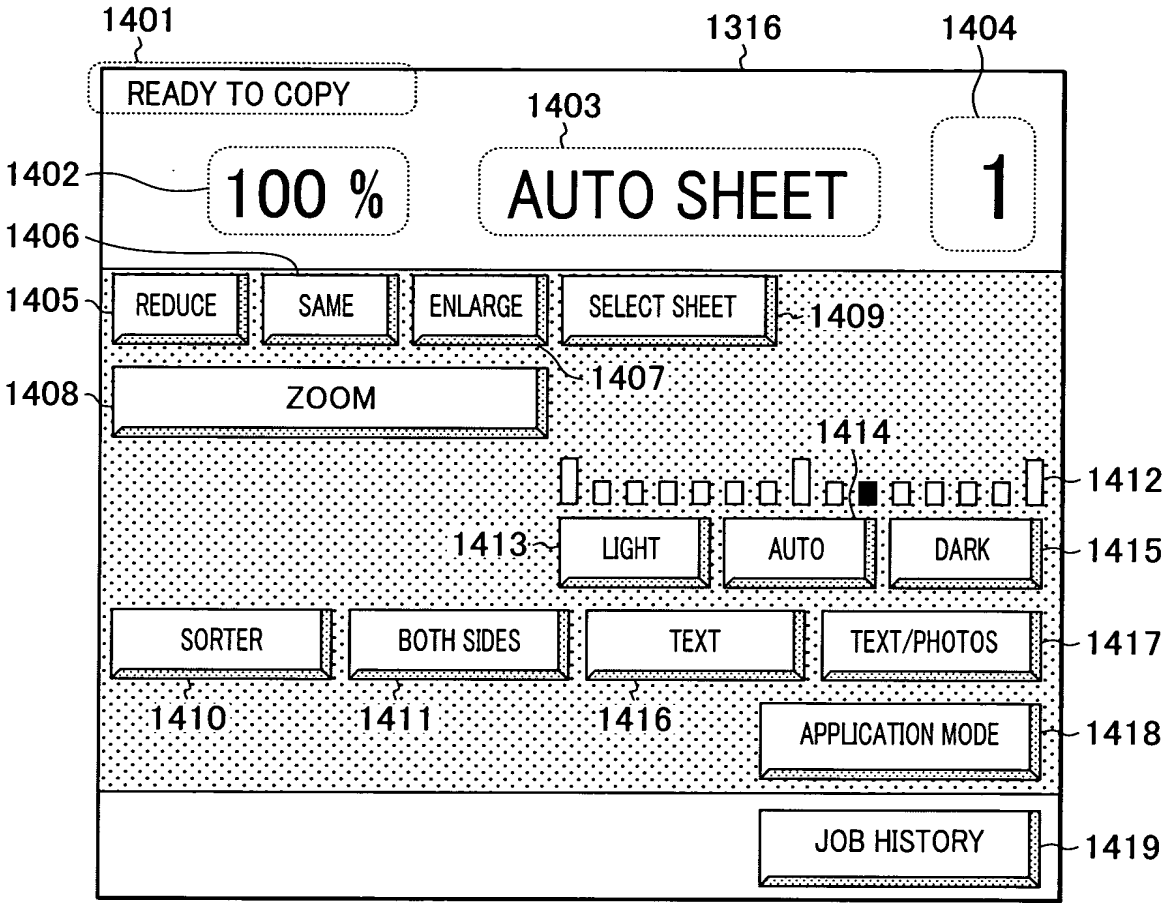

1401
1316
1404
READY TO COPY
1403
1402
100 %
AUTO SHEET
1
1406
1405
REDUCE
SAME
ENLARGE
SELECT SHEET
1409
1407
1408
ZOOM
1414
1412
1413
LIGHT
AUTO
DARK
1415
SORTER
BOTH SIDES
TEXT
TEXT/PHOTOS
1417
1410
1411
1416
APPLICATION MODE
1418
JOB HISTORY
1419

FIG. 14

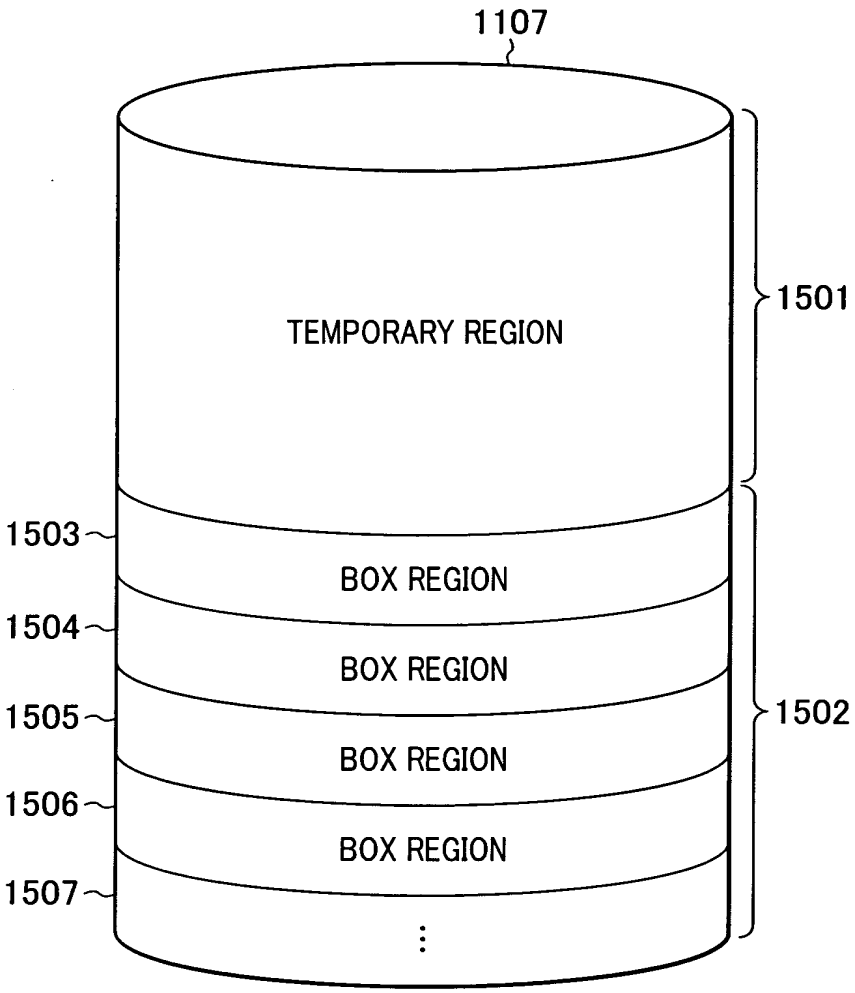

1107
TEMPORARY REGION
1501
1503
BOX REGION
1504
BOX REGION
1505
BOX REGION
1506
BOX REGION
1507
1502

FIG. 15A

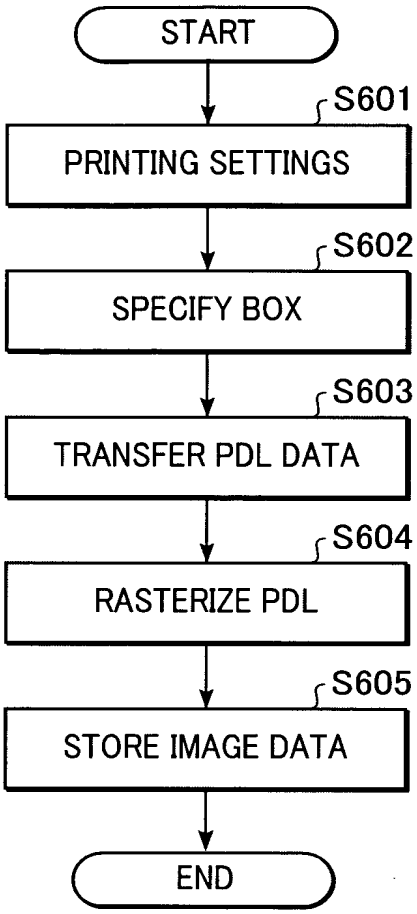


FIG. 15B

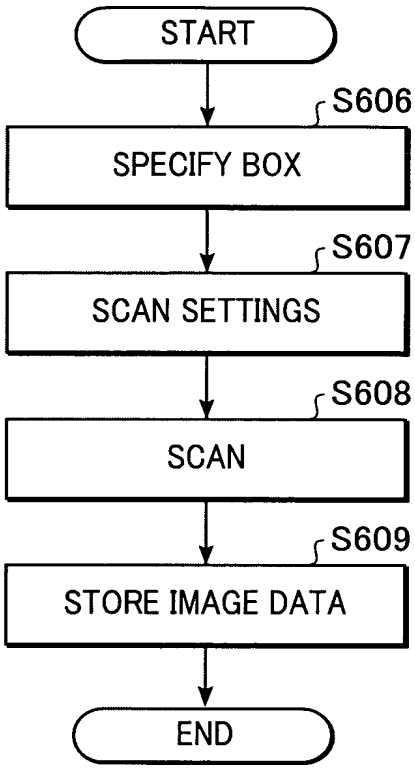


FIG. 16

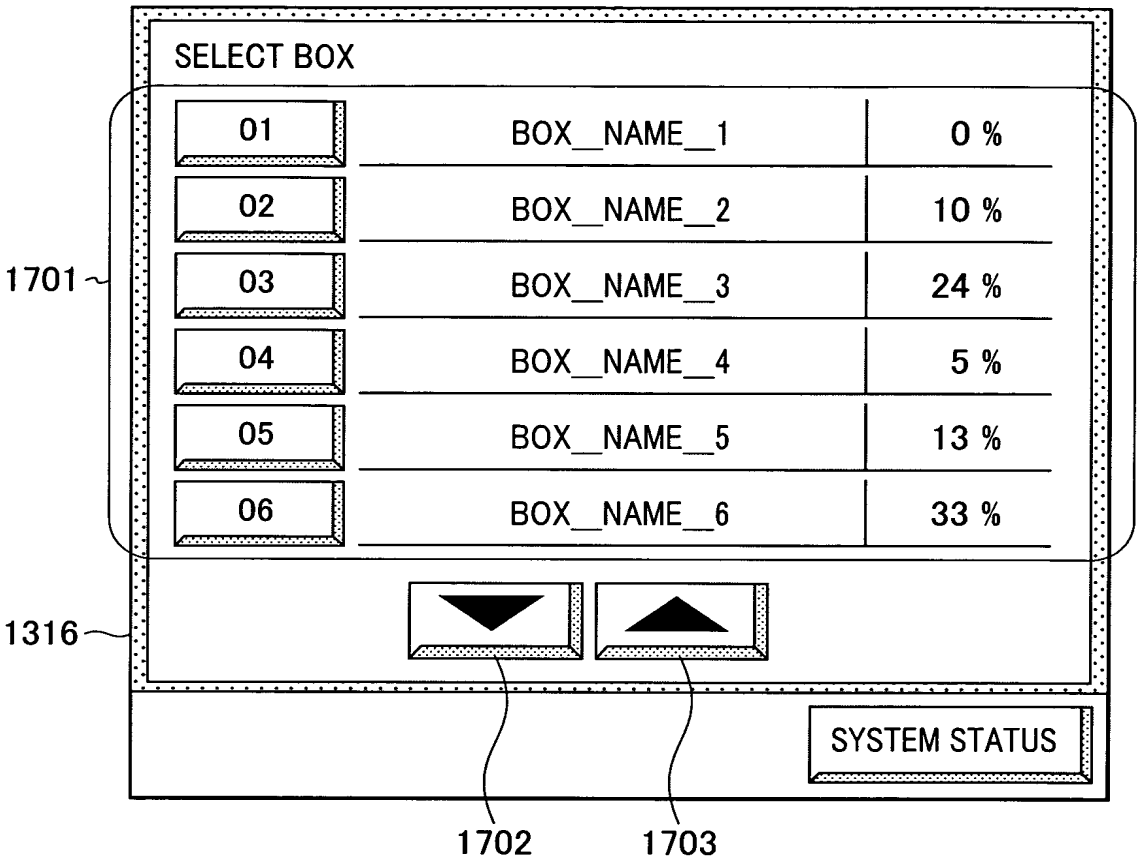

SELECT BOX
01
BOX__NAME__1
0 %
02
BOX__NAME__2
10 %
03
BOX__NAME__3
24 %
04
BOX__NAME__4
5 %
05
BOX__NAME__5
13 %
06
BOX__NAME__6
33 %
SYSTEM STATUS
1701
1316
1702
1703

FIG. 17

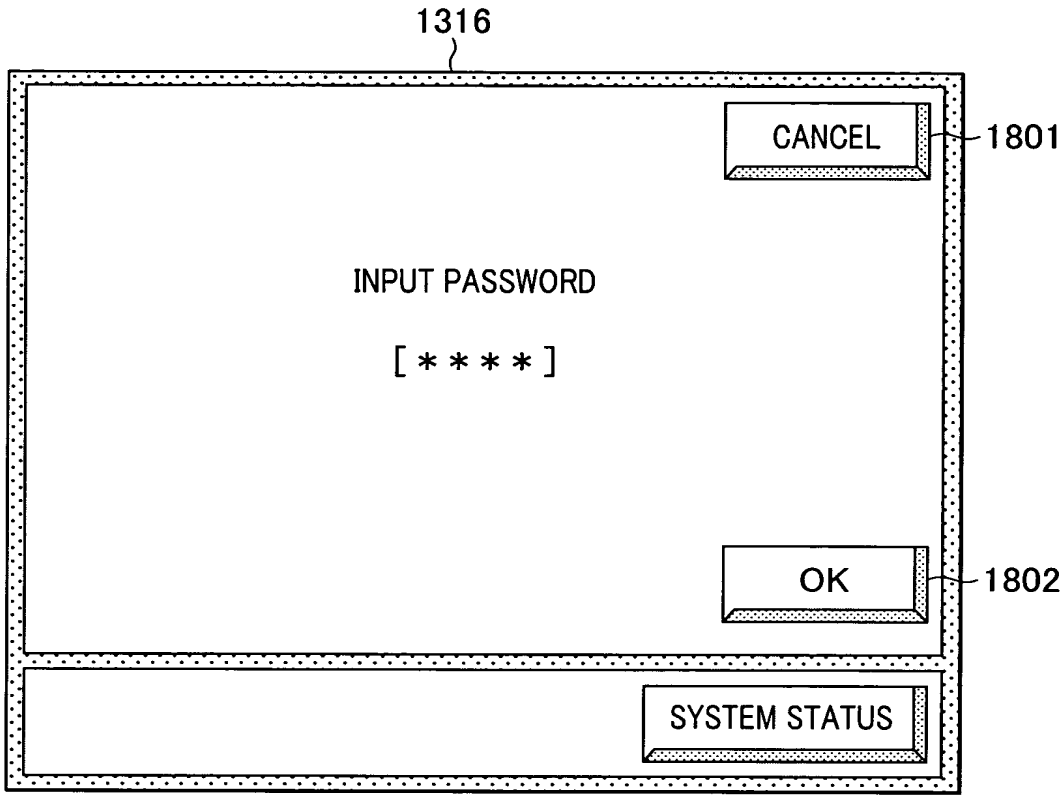


FIG. 18

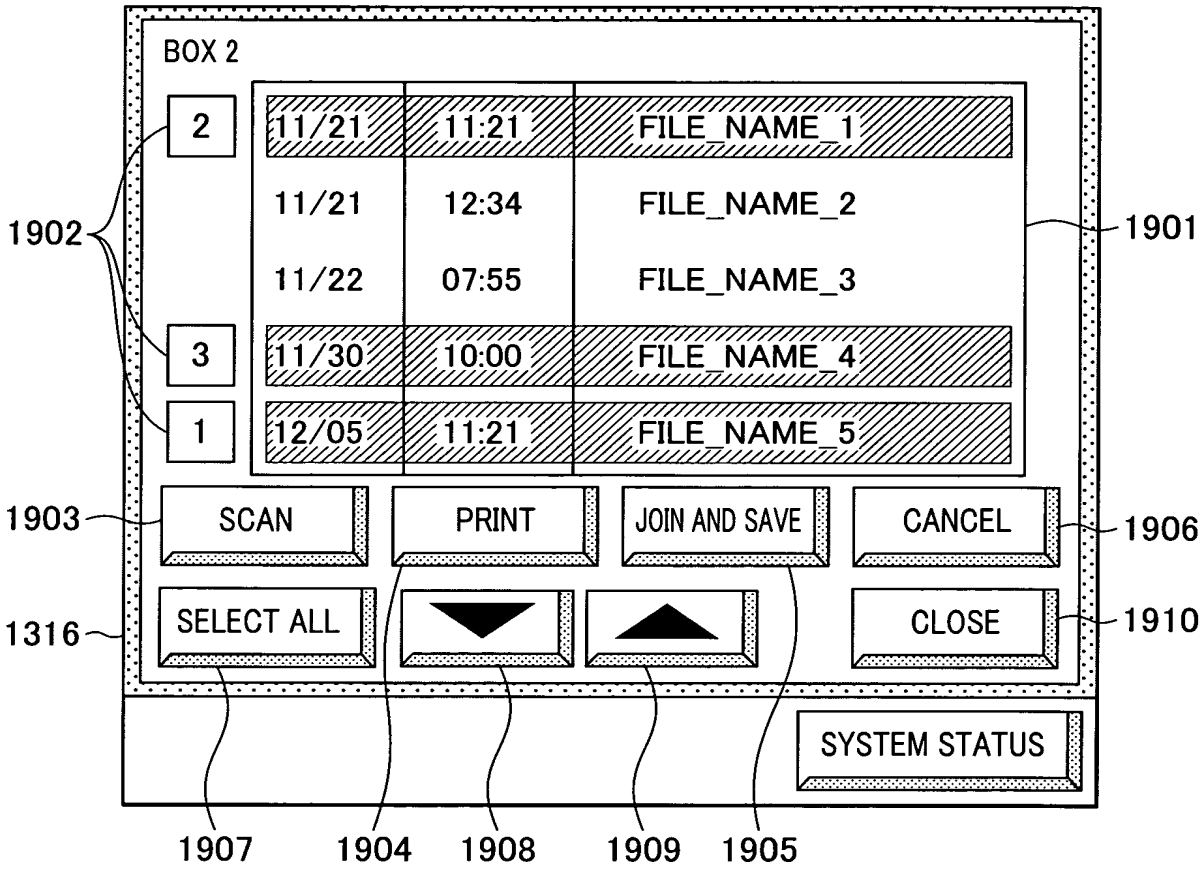

BOX 2
2
3
1
11/21
11:21
FILE_NAME_1
11/21
12:34
FILE_NAME_2
11/22
07:55
FILE_NAME_3
11/30
10:00
FILE_NAME_4
12/05
11:21
FILE_NAME_5
SCAN
PRINT
JOIN AND SAVE
CANCEL
SELECT ALL
CLOSE
SYSTEM STATUS
1902
1901
1903
1906
1316
1910
1907
1904
1908
1909
1905

FIG. 19

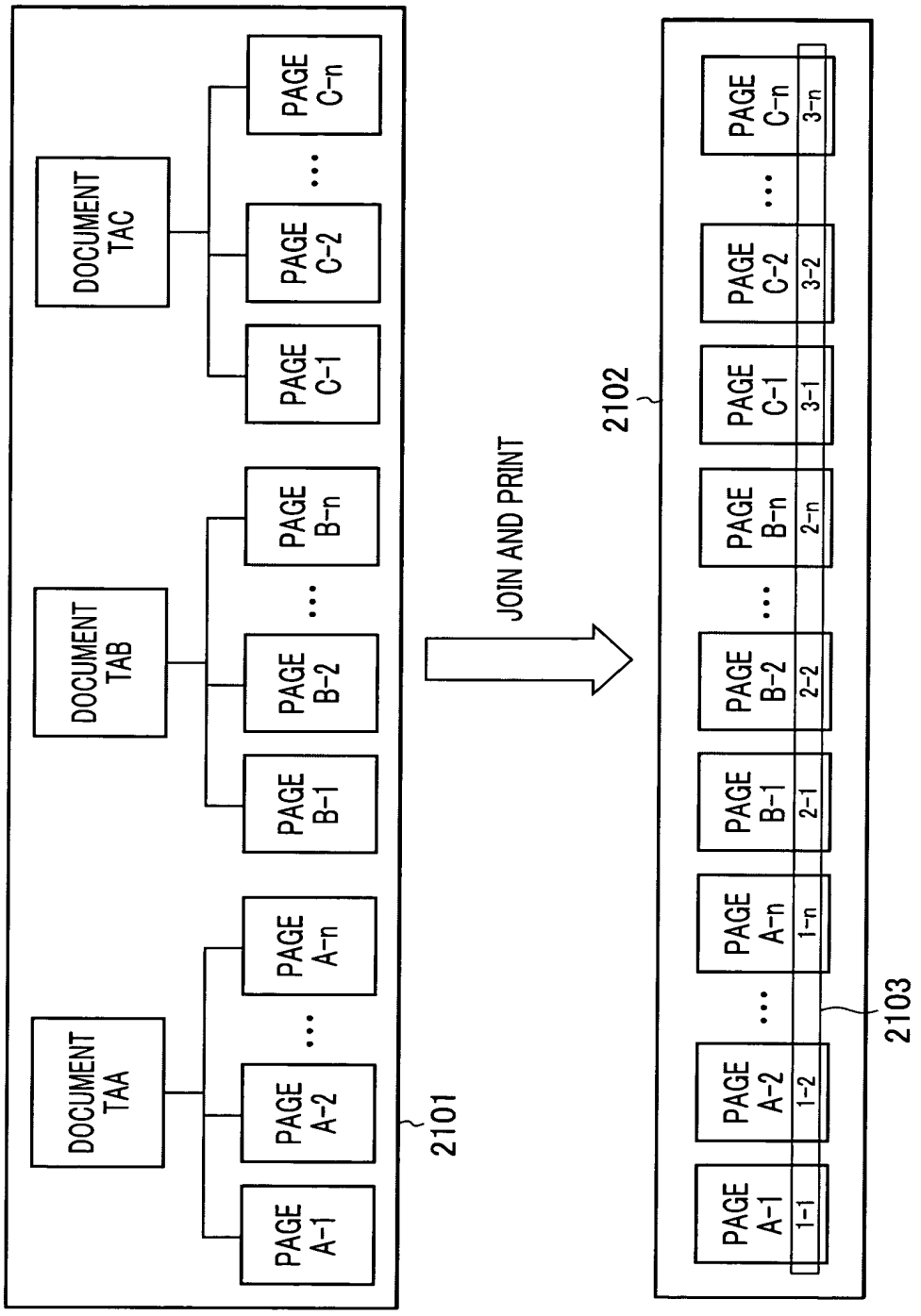

DOCUMENT TAA
PAGE A-1
PAGE A-2
PAGE A-n
DOCUMENT TAB
PAGE B-1
PAGE B-2
PAGE B-n
DOCUMENT TAC
PAGE C-1
PAGE C-2
PAGE C-n
2101
JOIN AND PRINT
2102
2103
1-1
1-2
1-n
2-1
2-2
2-n
3-1
3-2
3-n

FIG. 20

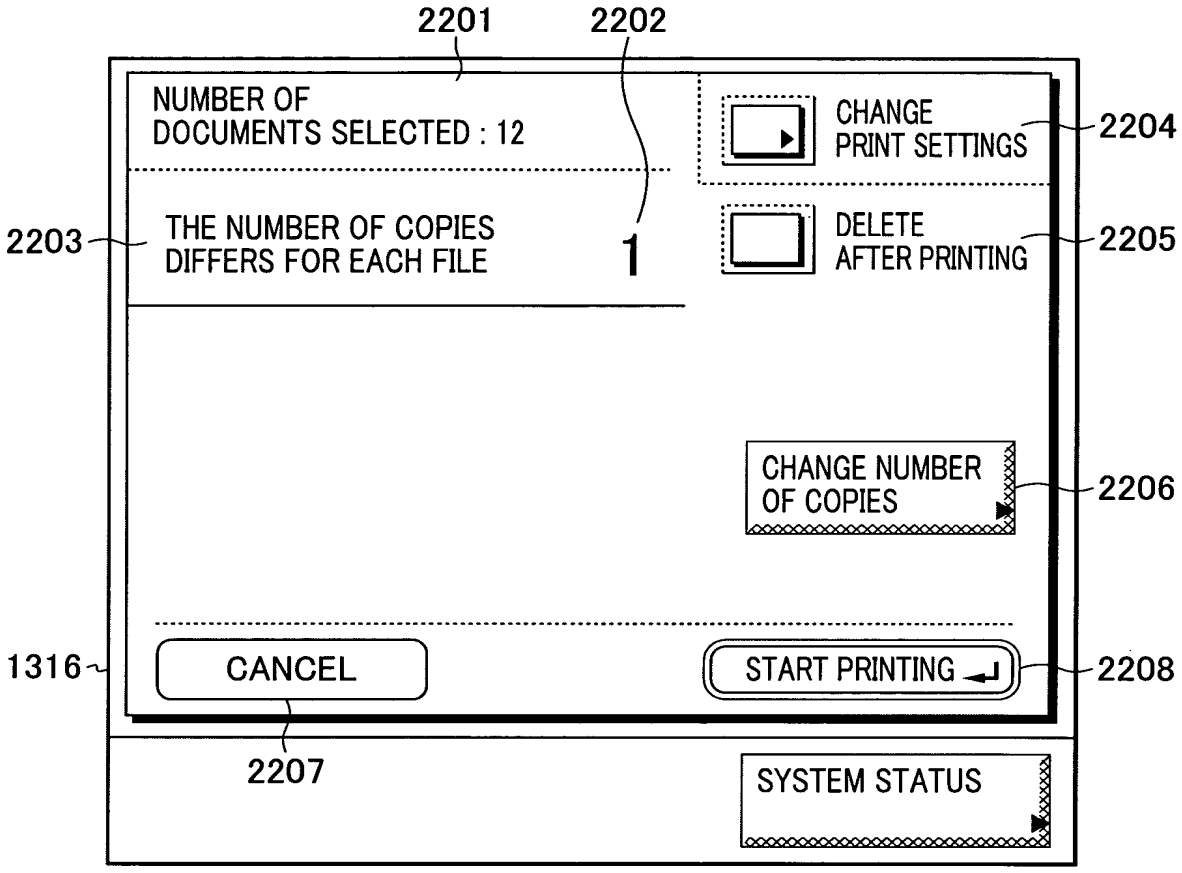

2201
2202
NUMBER OF
DOCUMENTS SELECTED : 12
CHANGE
PRINT SETTINGS
2204
2203
THE NUMBER OF COPIES
DIFFERS FOR EACH FILE
1
DELETE
AFTER PRINTING
2205
CHANGE NUMBER
OF COPIES
2206
1316
CANCEL
START PRINTING
2208
2207
SYSTEM STATUS

FIG. 21

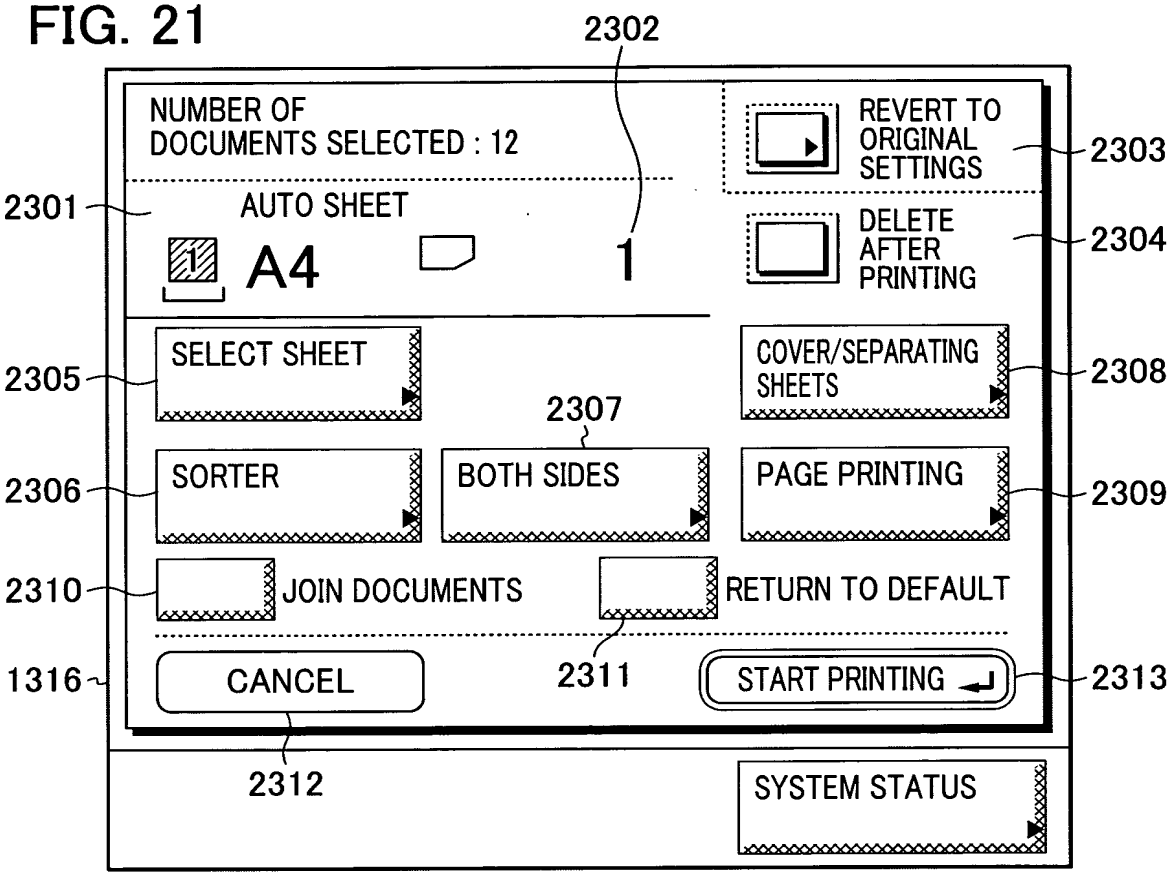

2302
NUMBER OF DOCUMENTS SELECTED : 12
REVERT TO ORIGINAL SETTINGS
2303
2301
AUTO SHEET
A4
1
DELETE AFTER PRINTING
2304
SELECT SHEET
2305
COVER/SEPARATING SHEETS
2308
2307
SORTER
2306
BOTH SIDES
PAGE PRINTING
2309
2310
JOIN DOCUMENTS
RETURN TO DEFAULT
1316
CANCEL
2311
START PRINTING
2313
2312
SYSTEM STATUS

FIG. 22

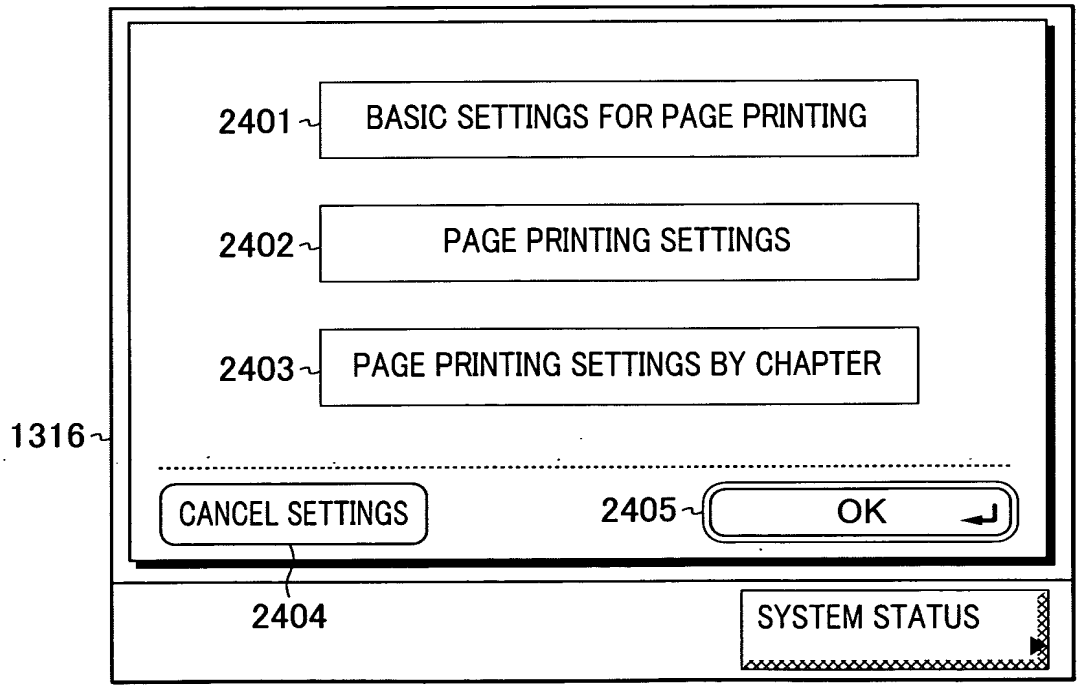

2401
BASIC SETTINGS FOR PAGE PRINTING
2402
PAGE PRINTING SETTINGS
2403
PAGE PRINTING SETTINGS BY CHAPTER
1316
CANCEL SETTINGS
2405
OK
2404
SYSTEM STATUS

FIG. 23

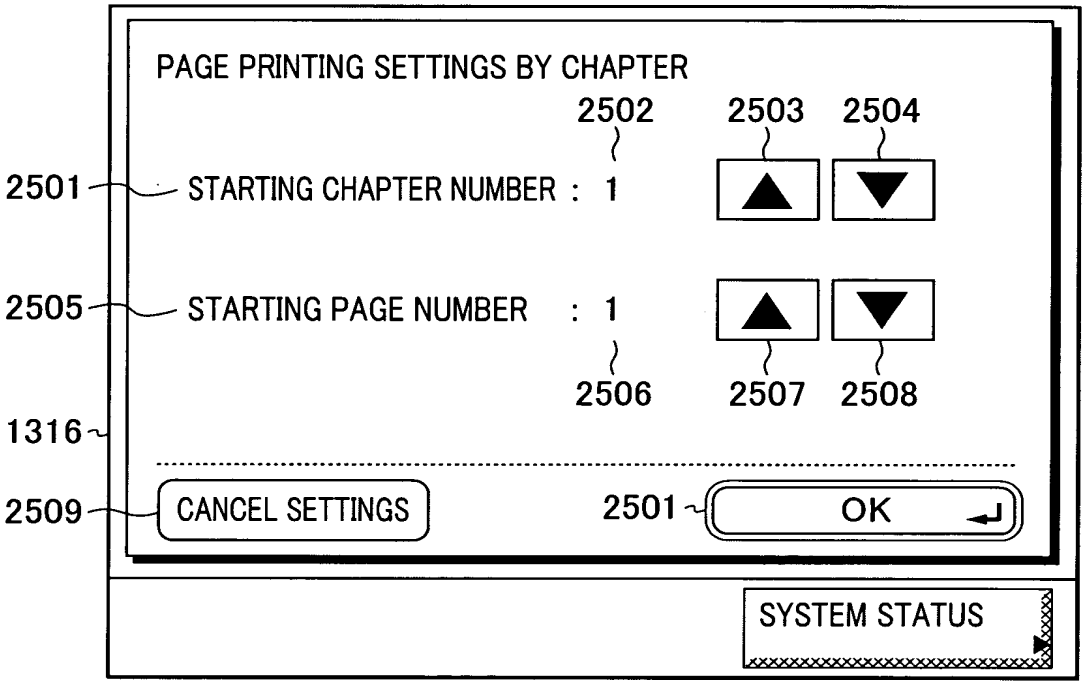

PAGE PRINTING SETTINGS BY CHAPTER
2502
2503
2504
2501
STARTING CHAPTER NUMBER : 1
2505
STARTING PAGE NUMBER : 1
2506
2507
2508
1316
2509
CANCEL SETTINGS
2501
OK
SYSTEM STATUS

FIG. 24

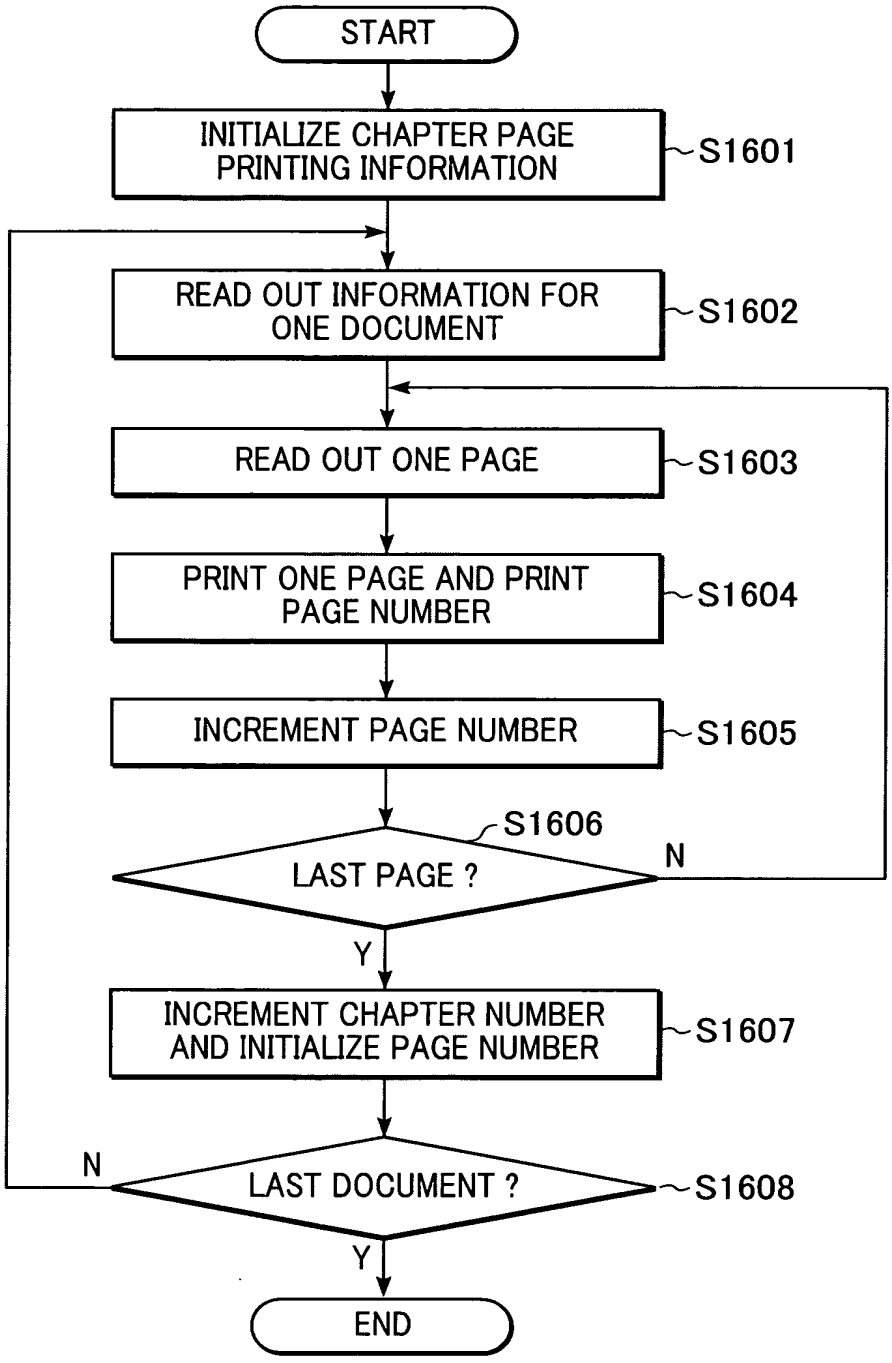
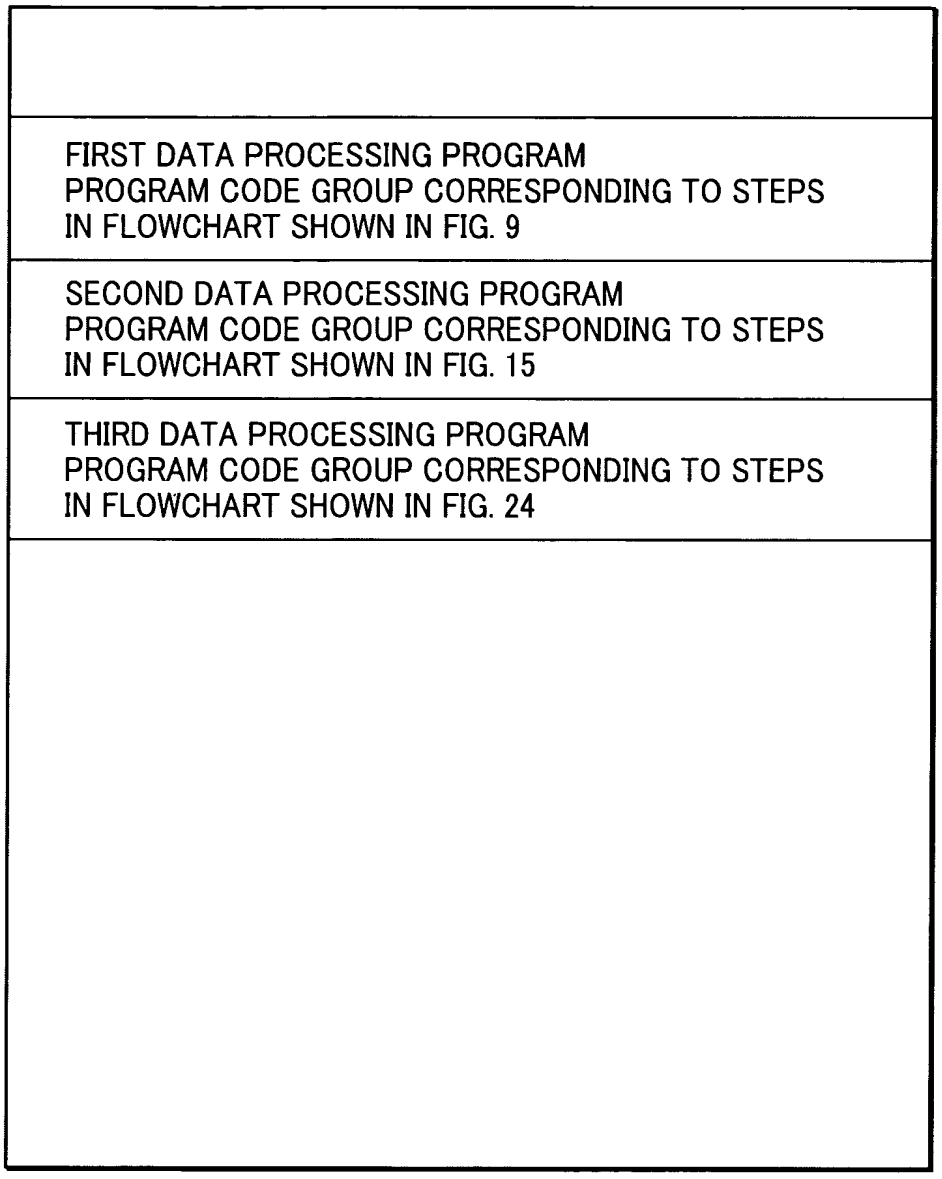

START
INITIALIZE CHAPTER PAGE PRINTING INFORMATION
S1601
READ OUT INFORMATION FOR ONE DOCUMENT
S1602
READ OUT ONE PAGE
S1603
PRINT ONE PAGE AND PRINT PAGE NUMBER
S1604
INCREMENT PAGE NUMBER
S1605
S1606
LAST PAGE ?
N
Y
INCREMENT CHAPTER NUMBER AND INITIALIZE PAGE NUMBER
S1607
N
LAST DOCUMENT ?
S1608
Y
END

FIG. 25


FIRST DATA PROCESSING PROGRAM
PROGRAM CODE GROUP CORRESPONDING TO STEPS IN FLOWCHART SHOWN IN FIG. 9
SECOND DATA PROCESSING PROGRAM
PROGRAM CODE GROUP CORRESPONDING TO STEPS IN FLOWCHART SHOWN IN FIG. 15
THIRD DATA PROCESSING PROGRAM
PROGRAM CODE GROUP CORRESPONDING TO STEPS IN FLOWCHART SHOWN IN FIG. 24